Yixiu Wang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10885187/publications.pdf

Version: 2024-02-01

331670 580821 2,400 30 21 25 h-index citations g-index papers 30 30 30 2550 times ranked docs citations citing authors all docs

| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Field-effect transistors made from solution-grown two-dimensional tellurene. Nature Electronics, 2018, 1, 228-236. | 26.0 | 591 |
| 2 | One-Dimensional van der Waals Material Tellurium: Raman Spectroscopy under Strain and Magneto-Transport. Nano Letters, 2017, 17, 3965-3973. | 9.1 | 272 |
| 3 | Stable mid-infrared polarization imaging based on quasi-2D tellurium at room temperature. Nature Communications, 2020, 11, 2308. | 12.8 | 259 |
| 4 | Tellurene: its physical properties, scalable nanomanufacturing, and device applications. Chemical Society Reviews, 2018, 47, 7203-7212. | 38.1 | 214 |
| 5 | Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. Nature Electronics, 2020, 3, 141-147. | 26.0 | 126 |
| 6 | Tellurene Photodetector with High Gain and Wide Bandwidth. ACS Nano, 2020, 14, 303-310. | 14.6 | 101 |
| 7 | Largeâ€Area Direct Laserâ€Shock Imprinting of a 3D Biomimic Hierarchical Metal Surface for Triboelectric Nanogenerators. Advanced Materials, 2018, 30, 1705840. | 21.0 | 93 |
| 8 | Thermoelectric Performance of 2D Tellurium with Accumulation Contacts. Nano Letters, 2019, 19, 1955-1962. | 9.1 | 81 |
| 9 | Solution-synthesized chiral piezoelectric selenium nanowires for wearable self-powered human-integrated monitoring. Nano Energy, 2019, 56, 693-699. | 16.0 | 71 |
| 10 | Quantum Hall effect of Weyl fermions in n-type semiconducting tellurene. Nature Nanotechnology, 2020, 15, 585-591. | 31.5 | 63 |
| 11 | Quantum Transport and Band Structure Evolution under High Magnetic Field in Few-Layer Tellurene. Nano Letters, 2018, 18, 5760-5767. | 9.1 | 60 |
| 12 | Tellurene: A Multifunctional Material for Midinfrared Optoelectronics. ACS Photonics, 2019, 6, 1632-1638. | 6.6 | 60 |
| 13 | Wearable high-dielectric-constant polymers with core–shell liquid metal inclusions for biomechanical energy harvesting and a self-powered user interface. Journal of Materials Chemistry A, 2019, 7, 7109-7117. | 10.3 | 48 |
| 14 | Chitosan biopolymerâ€derived selfâ€powered triboelectric sensor with optimized performance through molecular surface engineering and dataâ€driven learning. InformaÄnÃ-Materiály, 2019, 1, 116-125. | 17.3 | 47 |
| 15 | Data-driven and probabilistic learning of the process-structure-property relationship in solution-grown tellurene for optimized nanomanufacturing of high-performance nanoelectronics. Nano Energy, 2019, 57, 480-491. | 16.0 | 44 |
| 16 | Strainâ€Engineered Anisotropic Optical and Electrical Properties in 2D Chiralâ€Chain Tellurium. Advanced Materials, 2020, 32, e2002342. | 21.0 | 40 |
| 17 | Anisotropic thermal conductivity in 2D tellurium. 2D Materials, 2020, 7, 015008. | 4.4 | 39 |
| 18 | The resurrection of tellurium as an elemental two-dimensional semiconductor. Npj 2D Materials and Applications, 2022, 6, . | 7.9 | 36 |

| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Piezotronic effect in 1D van der Waals solid of elemental tellurium nanobelt for smart adaptive electronics. Semiconductor Science and Technology, 2017, 32, 104004. | 2.0 | 32 |
| 20 | lmaging Carrier Inhomogeneities in Ambipolar Tellurene Field Effect Transistors. Nano Letters, 2019, 19, 1289-1294. | 9.1 | 31 |
| 21 | Gate-tunable strong spin-orbit interaction in two-dimensional tellurium probed by weak antilocalization. Physical Review B, 2020, 101, . | 3.2 | 29 |
| 22 | High-Performance Few-Layer Tellurium CMOS Devices Enabled by Atomic Layer Deposited Dielectric Doping Technique., 2018,,. | | 16 |
| 23 | Scalable nanomanufacturing and assembly of chiral-chain piezoelectric tellurium nanowires for wearable self-powered cardiovascular monitoring. Nano Futures, 2019, 3, 011001. | 2.2 | 16 |
| 24 | Infrared ultrafast spectroscopy of solution-grown thin film tellurium. Physical Review B, 2019, 100, . | 3.2 | 13 |
| 25 | Parallel Nanoimprint Forming of One-Dimensional Chiral Semiconductor for Strain-Engineered Optical Properties. Nano-Micro Letters, 2020, 12, 160. | 27.0 | 8 |
| 26 | Bilayer Quantum Hall States in an n-Type Wide Tellurium Quantum Well. Nano Letters, 2021, 21, 7527-7533. | 9.1 | 6 |
| 27 | Wafer-scale Material-device Correlation of Tellurene MOSFETs. , 2018, , . | | 2 |
| 28 | Selenene and Tellurene. , 2022, , 197-224. | | 2 |
| 29 | Microscopic origin of inhomogeneous transport in four-terminal tellurene devices. Applied Physics Letters, 2020, 117, . | 3.3 | 0 |
| 30 | High-Frequency Tellurene MOSFETs with Biased Contacts. , 2021, , . | | O |